

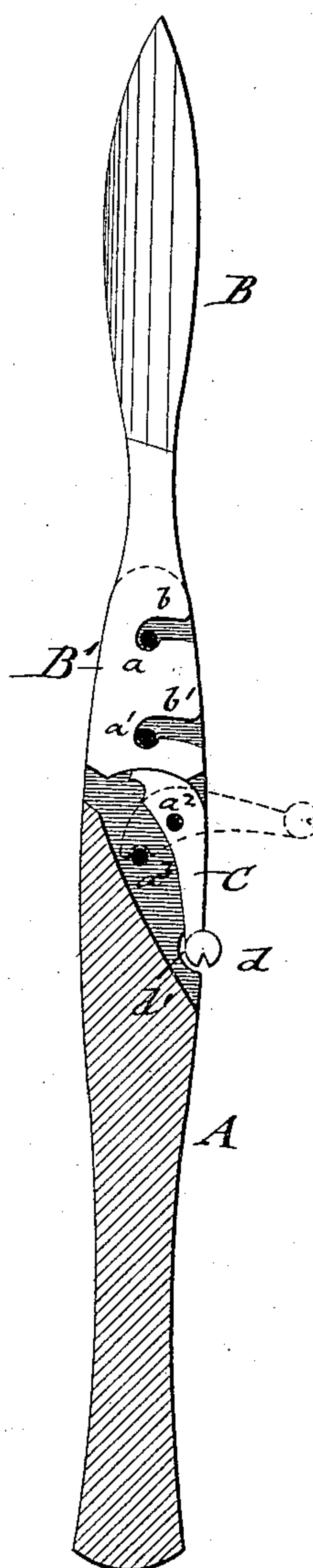
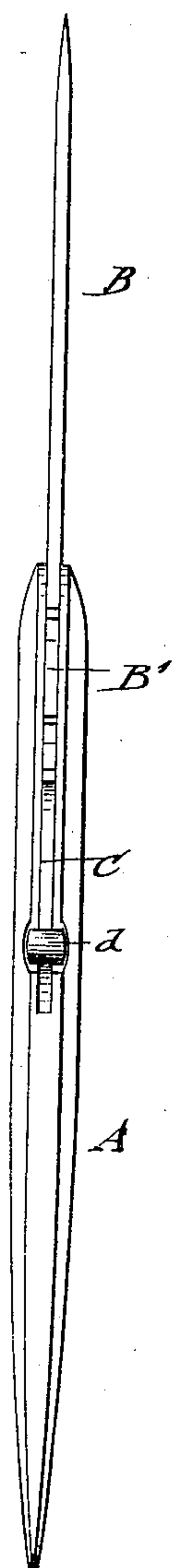
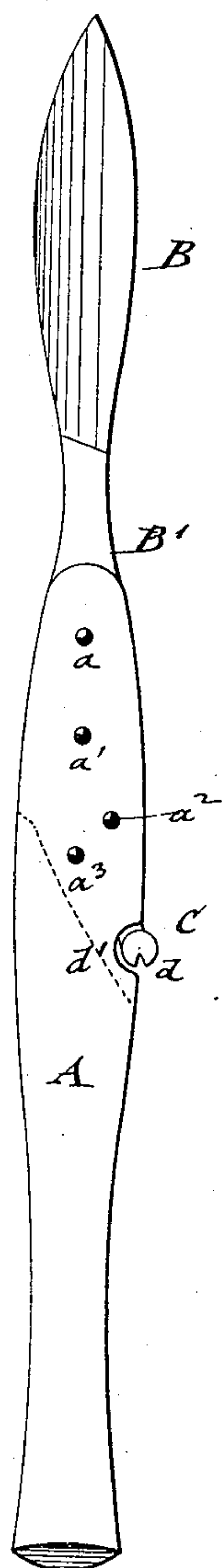
(No Model.)

A. J. UNGER.
SURGICAL INSTRUMENT HANDLE.

No. 321,160.

Patented June 30, 1885.

Fig. 1.



WITNESSES:

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ANTON J. UNGER, OF BROOKLYN, ASSIGNOR TO HIMSELF AND JOHN ZORN,
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SURGICAL-INSTRUMENT HANDLE.

SPECIFICATION forming part of Letters Patent No. 321,160, dated June 30, 1885.

Application filed September 19, 1884. (No model.)

To all whom it may concern:

Be it known that I, ANTON J. UNGER, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Handles for Surgical Instruments, of which the following is a specification.

This invention has reference to an improved handle for surgical instruments, whereby different interchangeable blades or tools can be quickly and securely inserted into said handle, so that the same can be used for scalpels, saws, and other surgical implements, so as to save space in the case of the surgeon; and the invention consists of a recessed handle having transverse pins, a detachable blade or tool the shank of which has side recesses fitting over the pins of the handle, a fulcrumed locking-lever having a cam-shaped inner end and a handle at the outer end, said cam-shaped end binding on the arc-shaped recess of the shank of the blade, so as to lock the blade in position in the handle or release the same for being detached therefrom.

In the accompanying drawings, Figure 1 represents a side view, Fig. 2 an end view, and Fig. 3 a vertical longitudinal section, of my improved handle for surgical implements.

Similar letters of reference indicate corresponding parts.

A in the drawings represents the handle of my improved surgical instrument, which handle is made of ivory, wood, or other suitable material. The handle A is recessed at one end, the recessed portion being provided with three pins, $a\ a'\ a''$, of which the pins $a\ a'$ are in line with the axis of the handle, while the third pin, a'' , is placed at one side of the axis, as shown clearly in Figs. 1 and 3. The pins $a\ a'$ serve to retain the shank B' of the cutting or sawing blade or tool B, said shank B' being provided with recesses $b\ b'$, that are bent at their inner ends in the shape of an L. The lower edge of the shank B' is made arc-shaped, as shown in Fig. 3, so as to admit the tight locking of the blade by the cam-shaped end of the locking-lever C, which is fulcrumed to the pin a'' . The cam-shaped end of the locking-lever C is made slightly eccentric, so as to rigidly bind onto the arc-shaped edge of the shank B' and lock thereby the recessed shank to the pins $a\ a'$ of the handle when the lever C is

placed in a position sidewise of the handle and nearly parallel to the longitudinal axis of the same. When the lever C is moved into a position at right angles to the handle, as shown in dotted lines in Fig. 3, the shank B' is released and can be readily detached from the handle A. When the lever C is in the last position, its cam-shaped end abuts against a pin, a'' , which serves as a stop for the same. The outer end of the lever C is provided with an enlargement, d , which serves as a handle for more conveniently taking hold of and operating the locking-lever C. The handle d fits into a small side recess, d' , of the handle A when the lever C abuts against the handle.

When the lever is thrown into a position at right angles to the handle, the shank of the blade may be readily detached from the pins $a\ a'$. When the blade or tool B is placed into the handle, the locking-lever is pressed against the handle A, so as to lock thereby the blade or tool B rigidly to the handle without any possibility of its becoming loose.

The same construction may also be applied to traveling knives and forks and in all cases in which interchangeable blades or tools are desired to be used with one and the same handle.

I am aware that handles for surgical instruments, detachable and interchangeable blades or tools, and means for securing them to the handles have been used heretofore, and I do not claim this feature, broadly.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of a recessed handle, A, having transverse pins $a\ a'$, an interchangeable blade or tool, B, having a shank, B', provided with recesses $b\ b'$, a locking-lever, C, fulcrumed into the recess of the handle, and a cam-shaped inner end and a handle at the opposite end, said cam-shaped inner end engaging an arc-shaped recess of the shank B', so as to lock or release the same, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

ANTON J. UNGER.

Witnesses:

PAUL GOEPEL,
SIDNEY MANN.